

Title (en)

Steel for plastics molds superior in weldability.

Title (de)

Sehr gut schweisssbarer Stahl zur Verwendung als Form bei der Herstellung von Kunststoffgegenständen.

Title (fr)

Acier présentant une bonne soudabilité et utilisable comme moule de fabrication d'articles en matière plastique.

Publication

EP 0431557 B1 19950802 (EN)

Application

EP 90123214 A 19901204

Priority

JP 31714789 A 19891206

Abstract (en)

[origin: EP0431557A1] Disclosed is a steel for plastics molds superior in weldability. The steel consists essentially of C: 0.1 to 0.3%, Mn: 0.5 to 3.5%, Cr: 1.0 to 3.0%, Mo: 0.03 to 2.0%, V: 0.01 to 1.0% and S: 0.01 to 0.10%; Si: not more than 0.25%, P: not more than 0.2%, and B: not more than 0.002%; the balance being substantially Fe; The alloy composition should satisfy the following formula: $BH = 326.0 + 847.3 (C\%) + 18.3 (Si\%) - 8.6 (Mn\%) - 12.5 (Cr\%) \leq \alpha \mu \rho \Ü 460$ The steel can be welded in the process of manufacturing a plastics mold without requiring preheating and postheating.

IPC 1-7

C22C 38/38; **C22C 38/60**

IPC 8 full level

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CPC (source: EP KR US)

C22C 38/00 (2013.01 - KR); **C22C 38/38** (2013.01 - EP US); **C22C 38/60** (2013.01 - EP US)

Cited by

CN108133092A; EP1251187A1; FR2838137A1; EP1283277A1; EP3211109A1; FR2838138A1; CN1317416C; AU2003258841B2; EP0882808A1; FR2764308A1; CN103627964A; EP3569719A1; CN110484813A; KR20190130979A; WO03083154A1; WO02083965A1; WO03083153A1

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